: 4160/15-16

ಈ ವಾರ್ಡ್‌ನಲ್ಲಿ. ಜಿ
ಕೆ ನಂ 13 ಮೇಲಿನ ದಿನಾಂಕ:
?. ಗೆ ಲಿಖಿತ ಪ್ರಸ್ತಾವನೆಯು
6000 ರ ಒಳಗೆ ಕ್ರಮವಾಗಿ
ಮುಕ್ತಾಯವಿದೆ.

EXECUTIVE ENGINEER
Bruhat Bangalore [illegible]ara Palike,
Dasarahalli Zone, Bangalore-57.
2/11/16
2/11/16

I St & final Bill

M. A. R. 57 (Rule 116)
Measurement Book

No. B 415901

Serial No. .....
Name of Work ..... From..... To.....
Name of Contractor of nature of Agency .....
Date of commencement of work .....

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
	Name of Work :- Modified Estimated for improvements & Asphalting to. mallasandra main road Govt school to Anjaneya Swamy temple road, Mallsandra in ward No. 13 Shettyhalli Sub Division Est cost :- 25.00 Lakhs Job code No:- 013-13-000037 P code-2201 work order No:- EE/DD/work order/447/12-13 Dt 8.3.2013 Name of Agency:- Technical manager west KRIDL project implimentation unit						

MEASUREMENT BOOK

M. A. R. 5
Measure

Serial No. .....
Name of Work ..... From.....
Name of Contractor of nature of Agency .....
Date of commencement of work .....

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
	measurment recorded on 30-3-16						
	1) Earth work excavation by manual means ordinary soil involving an average horizontal throw upto 2 meters & an average lift upto 0.5m excavated surface leveled & sides neatly dressed the disposed Earth to be leveled neatly after breaking of clods com -plete as per specification						
	Qty vide item No. 1 pre measurement recoded in pag No. 415969/2 of this MB			@RS	65.98	253.46	16723.00

Date	Full description, etc, of work	Number	Le
1	2	3	
	3) providing, laying, spreading & wet mix macadam specification With water at OMC in mechanic of tipper to site laying in u base/base course on well p vibratory roller to achieve Specifications. Qty vide item No. 3 premeasure page No. 415971 of this MB		

MENT BOOK

Dimensions			Contents	Reference to last Measurement
Length 4	Breadth 5	Depth 6	7	8
recorded on 30-3-16				
anual means ordinary soil involving upto 2 meters & an average lift leveled & sides neatly dressed the neatly after breaking of clods com				
surement recoded in MB			253.46	
@RS 65.98				16723.00

M. A. R. 57 (Rule 116)
Measurement Book

No. B 415902

Serial No. .....
Name of Work ..... From..... To.....
Name of Contractor of nature of Agency .....
Date of commencement of work .....

Date 1	Full description, etc, of work 2	Dimensions				Contents 7	Reference to last Measurement 8
		Number 3	Length 4	Breadth 5	Depth 6		
	3) providing, laying, spreading & compacting graded stone aggregate to wet mix macadam specifications including premixing the material with water at OMC in mechanical mix plant carriage of mixed method of tipper to site laying in uniform layers with paver in sub base/base course on well prepared surface and compacting with vibratory roller to achieve the desired density complete as per specifications. Qty vide item No. 3 premeasurement recorded on page No. 415971 of this MB					226.22m³	
						@RS 1121.04	253600.00

MEASUREMENT BOOK

M. A. R. 5
Measure

Serial No. .....
Name of Work ..... From.....
Name of Contractor of nature of Agency .....
Date of commencement of work .....

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
	4) providing & applying primer coat with bitumen Emulsion on prepared Surface of granular base including cleaning of road surface & Spraying primer at the rate of 0.60 kg/sqm using mechanical means complete as per Specifications. Qty vide item No. 4 pre measurment recorded in page No. 415972/2 of this MB					844.88 m2 @ RS 44.28	37411.00
	5) providing & laying bituminous macadam on prepared Surface with crushed coarse aggregates as per design						

Date	Full description, etc, of work	Number	Le
1	2	3	
	mix formula for base/binding with F.E loader, hot mixing o plant 40 tonne capacity trans paver & laying mixed material & grade rolling by power ro mm compacted thickness with primer/tack coat with lead labours & OM of machineries		

EMENT BOOK

Dimensions			Contents	Reference to last Measurement
Length 4	Breadth 5	Depth 6	7	8
oat with bitumen Emulsion on prepared				
cluding cleaning of road surface &				
f 0.60 kg/sqm using mechanical				
ifications.				
easurment recorded				
s MB			844.88 m2	
	@ RS 44.28			37411.00
uminous macadam on			prepared	
ate aggregates as per			design	

M. A. R. 57 (Rule 116)
Measurement Book

No. B 415903

Serial No. .....

Name of Work ..... From..... To.....

Name of Contractor of nature of Agency .....

Date of commencement of work .....

Date 1	Full description, etc, of work 2	Dimensions				Contents 7	Reference to last Measurement 8
		Number 3	Length 4	Breadth 5	Depth 6		
	mix formula for base/binding course including loading of aggregates with F.E loader, hot mixing of stone aggregates & bitumen in hot mix plant 40 tonne capacity transporting the mixed material in tipper to paver & laying mixed materials with paver finisher to the required level & grade rolling by power roller to achieve the desired density 50/75 mm compacted thickness with 3.3% bitumen but excluding cost of primur/tack coat with lead upto 1km including cost of all materials labours & OM of machineries complete as per specifications with 80%						

MEASUREMENT BOOK

M. A. R. 5
Measure

Serial No. .....
Name of Work ..... From.....
Name of Contractor of nature of Agency .....
Date of commencement of work .....

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
	Qty vide item No 5 in page No. 415974	pre measurment recorded				43.71 m3	
				@RS	6646.32		290486.00
	6) Cleaning the Existing black topped surface with brooms, soft brushes & finally dusting with old gunny bags &/or compressed air to receive bituminous treatment including cost of all materials labours HOM of machineries Complete as per specifications						
	Qty vide item No. 6 in page no. 415974 of this MB	pre measurement recorded				4831.25 m2	
				@RS	2.59		12513.00

Date	Full description, etc, of work	Number	Len
1	2	3	
	7) Tack coat :- providing & layin using Emulsion pressure distr on the prepared bituminous /gra broom. Complete as per Specifi Qty vide item No.7 pre mea in page No. 415974/2 of thi		

EMENT BOOK

Dimensions			Contents	Reference to last Measurement
Length 4	Breadth 5	Depth 6	7	8
measurment recorded				
			43.71 m3	
	@RS	6646.32		290486.00
black topped surface with brooms, soft				
with old gunny bags & / or compressed				
atment including cost of all materials				
es Complete as per specfications				
asurement recorded				
			4831.25 m2	
MB				
	@RS	2.59		12513.00

M. A. R. 57 (Rule 116)
Measurement Book

No. B 415904

Serial No. .....
Name of Work ..... From..... To.....
Name of Contractor of nature of Agency .....
Date of commencement of work .....

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
	7) Tack coat :- providing & laying tack coat with bitumen Emulsion using Emulsion pressure distrubutor at the rate 0.20 kg per sqm on the prepared bituminous / granular surface cleaned with mechanical broom. Complete as per specifications.						
	dly vide item No. 7 pre measurment recorded in page No. 415974/2 of this MB						
				@RS	11.99	4831.25 m2	
						57927.00	

MEASUREMENT BOOK

M. A. R. 5
Measure

Serial No. .....
Name of Work ..... From.....
Name of Contractor of nature of Agency .....
Date of commencement of work .....

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
	8) providing & laying Semi dense bituminous concrete with 100-120 TPH batch typ HMP producing an average output of 75 tonnes per hour using crushed aggregates of specified grading premixed with bituminous binder at 4.5 to 5% of mix & filler transporting the hot mix to work site laying with a hydrostatic paver finisher with sensor control to the required grade, level & alignment rolling with smooth wheeled vibratory & tandem rollers to achieve the desired compaction as per MORTH specification clause No. 500.8 Complete in all respects as per Specification 25-30mm compacted thickness with 5% Bitumen 80/100 Grade						

Date	Full description, etc, of work	Number	Len
1	2	3	
	mallasandra main road	1	30.
		1	30.
		1	30
		1	30.
		1	30
		1	30.
		1	30.
		1	30

EMENT BOOK

Dimensions			Contents	Reference to last Measurement
Length 4	Breadth 5	Depth 6	7	8
se bituminous concrete with 100-120 TPH				
n average output of 75 tonnes per				
es of specified grading premixed with				
5% of mix & filler transporting the				
ng with a hydrostatic paver finisher				
e required grade, level & alignment				
eled vibratory & tandem rollers				
paction as per MORTH specification				
In all respects as per Specification				
kness with 5% Bitumen 80/100 Grade				

M. A. R. 57 (Rule 116)
Measurement Book

No. B 415905

Serial No. .....
Name of Work ..... From..... To.....
Name of Contractor of nature of Agency .....
Date of commencement of work .....

Date 1	Full description, etc, of work 2	Dimensions				Contents 7	Reference to last Measurement 8
		Number 3	Length 4	Breadth 5	Depth 6		
	mallasandra main road	1	30.00	$\frac{(9.4+5.6)}{2}$	0.025	5.63 m³	
		1	30.00	$\frac{(5.6+5.2)}{2}$	0.025	4.05 m³	
		1	30.00	$\frac{(5.2+4.5)}{2}$	0.025	3.64 m³	
		1	30.00	$\frac{(4.5+5.0)}{2}$	0.025	3.56 m³	
		1	30.00	$\frac{(5+5.9)}{2}$	0.025	4.09 m³	
		1	30.00	$\frac{(5.9+5.4)}{2}$	0.025	4.24 m³	
		1	30.00	$\frac{(5.4+5.6)}{2}$	0.025	4.13 m³	
		1	30.00	$\frac{(5.6+6.8)}{2}$	0.025	4.65 m³	

MEASUREMENT BOOK

M. A. R. 57
Measurer

Serial No. .....
Name of Work ..... From.....
Name of Contractor of nature of Agency .....
Date of commencement of work .....

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
	Kuvempu School road	1	10.00	$\frac{(6.8+5.6)}{2}$	0.025	1.55 m3	
		1	30.00	$\frac{(3.2+4.6)}{2}$	0.025	2.93 m3	
		1	30.00	$\frac{(4.6+4.5)}{2}$	0.025	3.41 m3	
		1	30.00	$\frac{(4.5+4.3)}{2}$	0.025	3.30 m3	
		1	30.00	$\frac{(4.3+5.4)}{2}$	0.025	3.64 m3	
		1	30.00	$\frac{(5.4+4.)}{2}$	0.025	3.56 m3	
		1	30.00	$\frac{(4.1+5.8)}{2}$	0.025	3.08 m3	
		1	30.00	$\frac{(4.1+5.8)}{2}$	0.025	3.71 m3	
		1	30.00	$\frac{(5.8+5.2)}{2}$	0.025	4.13 m3	

Date	Full description, etc, of work	Number	Len
1	2	3	4
	mallasandra Govt. School opp. Road	1	30.
		1	30.0
		1	30.0
		1	15.5
		1	30.0
		1	30.0
		1	30.
		1	30.

EMENT BOOK

Dimensions			Contents	Reference to last Measurement
Length 4	Breadth 5	Depth 6	7	8
10.00	(6.8+5.6)/2	0.025	1.55 m3	
30.00	(3.2+4.6)/2	0.025	2.93 m3	
30.00	(4.6+4.5)/2	0.025	3.41 m3	
30.00	(4.5+4.3)/2	0.025	3.30 m3	
30.00	(4.3+5.4)/2	0.025	3.64 m3	
30.00	(6.4+4.)/2	0.025	3.56 m3	
30.00	(4.1+5.8)/2	0.025	3.08 m3	
30.00	(4.1+5.8)/2	0.025	3.71 m3	
30.00	(5.8+5.2)/2	0.025	4.13 m3	

M. A. R. 57 (Rule 116)
Measurement Book

No. B 415906

Serial No. .....

Name of Work ..... From..... To.....

Name of Contractor of nature of Agency .....

Date of commencement of work .....

Date 1	Full description, etc, of work 2	Dimensions				Contents 7	Reference to last Measurement 8
		Number 3	Length 4	Breadth 5	Depth 6		
	mallasandra Govt. School opp. Road	1	30.00	(5.2+5.5)/2	0.025	4.01 m3	
		1	30.00	(5.5+6.7)/2	0.025	4.58 m3	
		1	30.00	(6.7+6)/2	0.025	4.76 m3	
		1	15.50	(6.0+6.3)/2	0.025	2.38 m3	
		1	30.00	(5.9+6.0)/2	0.025	4.46 m3	
		1	30.00	(6.0+6.0)/2	0.025	4.50 m3	
		1	30.00	(6.0+6.1)/2	0.025	4.54 m3	
		1	30.00	(6.4+7.1)/2	0.025	4.95 m3	

MEASUREMENT BOOK

M. A. R. 5
Measure

Serial No. .....
Name of Work ..... From.....
Name of Contractor of nature of Agency .....
Date of commencement of work .....

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
		1	30.00	$\frac{(7.1+9.8)}{2}$	0.025	6.34 m3	
		1	30.00	$\frac{(9.8+11.2)}{2}$	0.025	7.88 m3	
		1	28.50	$\frac{(11.2+8.7)}{2}$	0.025	7.09 m3	
						123.26 m3	
				@RS	9631.44		1187171.00
	9) carriage of mixed materials to kms. for item of SL no 1.C) RS 5.20 per cum/km page no. 186/PWD SR 2013-14 Qty vide item No. 5+8					195.20 m3	
				@RS	56.16		10962.00

Date	Full description, etc, of work	Number	Len
1	2	3	4
	10) Disposal of debris to the lead & lift & as direction by lead to km a) Basic rate for No. 17.4/KSRRB :- M100-41 of work 1.28 tonne/km for ing item No. 17.1 KSRRB M 10 PWD SR 2013-14 Qty vide item	No. 1	

REMENT BOOK

Dimensions			Contents	Reference to last Measurement
Length 4	Breadth 5	Depth 6	7	8
30.00	$\frac{(7.1+9.8)}{2}$	0.025	6.34 m3	
30.00	$\frac{(9.8+11.2)}{2}$	0.025	7.88 m3	
28.50	$\frac{(11.2+8.7)}{2}$	0.025	7.09 m3	
			123.26 m3	
	@RS	9631.44		1187171.00
terials lo kms. for item of SL no L.C)				
no. 186./PWD SR 2013-14				
			195.20 m3	
	@RS	56.16		10962.00

M. A. R. 57 (Rule 116)
Measurement Book

No. B 415907

Serial No. .....
Name of Work ..... From..... To.....
Name of Contractor of nature of Agency .....
Date of commencement of work .....

Date 1	Full description, etc, of work 2	Dimensions: Number 3	Length 4	Breadth 5	Depth 6	Contents 7	Reference to last Measurement 8
	lo) Disposal of debrise to the final place of disposal with all lead & lift & as direction by the Engineer in charge of the work lead lo km a) Basic rate for haulage of materials as per item No. 17.4/KSRRB :- M100-41-. 200 Tonne-/km b) average Earth of work 1.28 tonne/km for RS 2.00/km c) add loading & unload ing item No. 17.1 KSRRB M 100-1 RS 62.20 Cp. 150 . 1 No 18.5-7/, SR 13-1/2 PWD SR 2013-14						
	Shy vide item No. 1					253.46 m3 ~~246.40~~	

MEASUREMENT BOOK

M. A. R. 57 (R
Measuremen

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
					BF	253.46 m3	
				@RS	72.71		32456.00
							18429.00
Ckd & Rc	KRIDL charges	10% + 1%	Labours	Cess			207200.07
30/3/2016					Total =		2090837.07
						Certified	
						30-3-16	

erial No. .....
ame of Work ..... From.....
ame of Contractor of nature of Agency .....
ate of commencement of work .....

Date	Full description, etc, of work	Di	
		Number	Length
1	2	3	4
	Certifide that the	work	done
	Certifide that the	debrise	remo
		Jhuild	

REMENT BOOK

Dimensions			Contents	Reference to last Measurement
Length 4	Breadth 5	Depth 6	7	8
		BF		
	@Rs	72.71	2[illegible]3.46 m3	32456.00
				18429.00
+1% Labours		Cess		207200.07
		Total =		2090837.07

Executive Engr
30-3-16

M. A. R. 57 (Rule 116)
Measurement Book

No. B 415908

Serial No. .....

Name of Work ..... From..... To.....

Name of Contractor of nature of Agency .....

Date of commencement of work .....

Date 1	Full description, etc, of work 2	Dimensions				Contents 7	Reference to last Measurement 8
		Number 3	Length 4	Breadth 5	Depth 6		
	certifide that the work done Satisfactarly certifide that the debrise removed from the work spaces						

Executive Engr

MEASUREMENT BOOK

M. A. R. 57
Measuren

Serial No. .....
Name of Work ..... From.....
Name of Contractor of nature of Agency .....
Date of commencement of work .....

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8